

IN THE CLAIMS

Please amend Claims 1, 14 and 15, and add Claim 22 as follows.

1. (Currently Amended) An image reading apparatus for reading an image of a document, comprising:

an image reading unit configured to read the image of the document;

an illuminating unit configured to illuminate the document;

a plurality of mirrors configured to reflect light from the document; and

a housing configured to support the plurality of mirrors, said housing including a mirror supporting part, wherein at least one of the plurality of mirrors comprises:

a ~~non-mirror~~ surface;

a curved reflecting mirror surface, opposite from the ~~non-mirror~~ surface; and

two contact portions, disposed on a side of the mirror on which the curved reflecting mirror surface is provided and contacting the mirror supporting part of the housing, configured and positioned to determine the position of the curved reflecting surface in a direction normal to the surface thereof when the two contact portions contact the mirror supporting part of the housing; and

a protuberance being disposed at a position corresponding to a reference axis of the curved reflecting mirror surface,

wherein the protuberance of said mirror is inserted in a concave portion of the housing.

2. (Previously Presented) An image reading apparatus according to claim 1, wherein the contact portions provided on the at least one of the mirrors have a flat portion.

3. (Previously Presented) An image reading apparatus according to claim 1, wherein the curved reflecting surface and the contact portions of the mirrors are formed integrally.

4. (Previously Presented) An image reading apparatus according to claim 1, wherein the at least one of the mirrors comprises longitudinal position determining parts and lateral position determining parts for respectively and independently determining a longitudinal direction position and a lateral direction position.

5. (Previously Presented) An image reading apparatus according to claim 4, wherein either the longitudinal position determining parts or the lateral direction position determining parts provided on the at least one of the mirrors are formed on flat portions.

6. (Previously Presented) An image reading apparatus according to claim 4, wherein the longitudinal position determining parts and the lateral position determining parts provided on the at least one of the mirrors determine the position of a reference axis of the curved reflecting surface of the at least one of the mirrors.

7. (Previously Presented) An image reading apparatus according to claim 4, wherein the curved reflecting surface, and the longitudinal position determining parts and

the lateral position determining parts are formed integrally for the at least one of the mirrors.

8. (Previously Presented) An image reading apparatus according to claim 4, wherein the housing comprises respective engaging parts with which the longitudinal position determining parts and the lateral position determining parts of the at least one of the mirrors engage, and when the engaging parts, and the longitudinal position determining parts and the lateral position determining parts engage with each other, each portion of the engaging parts can slide in a direction orthogonal to a position determining direction, thereby allowing thermal expansion of the at least one of the mirrors.

9. (Previously Presented) An image reading apparatus according to claim 1, further comprising a spring configured and positioned to press the two contact portions against the housing to determine the position of the curved reflecting surface.

10. (Previously Presented) An image reading apparatus according to claim 1, wherein the plurality of mirrors, each of which comprising the curved reflecting surface and the two contact portions, is configured to form the image of the document onto the image reading unit, and a reference-axis ray has a different incident direction and reflected direction with the curved reflecting surface.

11. (Previously Presented) An image reading apparatus according to claim 1, further comprising a scanning unit configured to move the housing to perform scanning of

the image of the document, wherein the housing further supports the image reading unit and the illumination unit.

12. (Previously Presented) An image reading apparatus according to claim 1, wherein the two contact portions are adjacent to the curved reflecting surface.

13. (Previously Presented) An image reading apparatus according to claim 1, wherein the curved reflecting surface is between one of the two contact portions and the other of the two contact portions.

14. (Currently Amended) An image reading apparatus for reading an image of a document, comprising:

an image reading unit configured to read the image of the document;

an illuminating unit configured to illuminate the document;

a mirror configured to reflect and guide light from the document to said image reading unit, said mirror including a curved reflecting mirror surface; and

a housing configured to support said mirror, said housing including a concave portion,

wherein said mirror comprises a ~~projecting part~~ protuberance being disposed at a position corresponding to a reference axis of the curved reflecting mirror surface, and

wherein the ~~projecting part~~ protuberance of said mirror is inserted in the concave portion of the housing.

15. (Currently Amended) An image reading apparatus according to claim 14, wherein the ~~projecting part~~ protuberance of said mirror is disposed at a center of said mirror in a longitudinal direction thereof.

16. (Previously Presented) An image reading apparatus according to claim 14, wherein said mirror is fixed on said housing by a pressure force of a blade spring.

17. (Previously Presented) An image reading apparatus according to claim 14, wherein said mirror is bonded to said housing.

18. (Previously Presented) An image reading apparatus according to claim 14, wherein said mirror is screwed to said housing.

19. (Previously Presented) An image reading apparatus according to claim 14, further comprising a scanning unit configured to move said housing to perform scanning of the image of the document, and wherein said housing further supports said image reading unit and said illumination unit.

20. (Previously Presented) An image reading apparatus according to claim 14, wherein said housing includes a mirror supporting part, wherein said mirror further comprises contact portions on both sides of the curved

reflecting mirror surface, said contact portions being disposed on a side of the mirror on which the curved reflecting mirror surface is disposed, and

wherein the contact portions of said mirror contact the mirror supporting part of the housing.

21. (Previously Presented) An image reading apparatus according to claim 20, wherein the curved reflecting surface and the contact portions of said mirror are formed integrally.

22. (New) An image reading apparatus for reading an image of a document, comprising:

an image reading unit configured to read the image of the document;

an illuminating unit configured to illuminate the document;

a mirror configured to reflect and guide light from the document to said image reading unit, said mirror including a curved reflecting mirror surface; and

a housing configured to support said mirror, said housing including a concave portion,

wherein said mirror comprises a protuberance being disposed at a position corresponding to a center of the curved reflecting mirror surface, and

wherein the protuberance of said mirror is inserted in the concave portion of the housing.